#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 7,466,776 B2 Issue Date: 12/16/2008

Appl. No.: 10/708,941 Filing Date: 04/02/2004

Inventor : Ti-Wen Yuan, et al.

Docket No.: MTKP0058USA

Title: AUTOMATIC GAIN CONTROL METHOD AND APPARATUS IN

COMMUNICATION SYSTEM HAVING DISCONTINUOUS

TRANSMISSION MODE

To: Commissioner for Patents

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Subject: Request for Certificate of Correction of Office

Mistake

Dear Sir,

The name of the assignee listed on the front page of the Patent is incorrect (attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the name of the assignee from Mediatek Corporation to Mediatek Incorporation which was correctly listed on the Assignment Document recorded on 4/2/2004 (attachment 2) and the PTOL-85 form submitted on 11/13/2008 (attachment 3).

Sincerely yours,

/Winston Hsu	Date:	01/12/2009

Winston Hsu, Patent Agent No. 41,526

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# UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION	
	Page <u>1</u> of <u>1</u>
PATENT NO. : 7,466,776 B2	
APPLICATION NO.: 10/708,941	
ISSUE DATE : 12/16/2008	
INVENTOR(S) : Ti-Wen Yuan; Wei-Sheng Yin	
It is certified that an error appears or errors appear in the above-identified patent and to is hereby corrected as shown below:  On the title page, item (73), correct the name of the assignee from "Mediatek Corporation Incorporation."	

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. VA 22313-1450.

Please correct the name of the assignee from "Mediatek Corporation" to "Mediatek Incorporation."

## (12) United States Patent

Yuan et al.

(54)	AUTOMATIC GAIN CONTROL METHOD AND APPARATUS IN COMMUNICATION
` '	AND APPARATUS IN COMMUNICATION
	SYSTEM HAVING DISCONTINUOUS
	SISIEMIMATER
	TRANSMISSION MODE

(75) Inventors: Ti-Wen Yuan, Hsin-Chu County (TW); Wei-Sheng Yin, Tai-Tung Hsien (TW)

Assignee: Mediatek Corporation, Hsin-Chu Hsien

Notice: (\*)

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 680 days.

Appl. No.: 10/708,941

Apr. 2, 2004 Filed: (22)

**Prior Publication Data** (65)Oct. 7, 2004 US 2004/0196931 A1

Foreign Application Priority Data (30)(TW) ...... 92107826 A Apr. 4, 2003

(51) Int. Cl. H04L 27/08

(2006.01)

375/343; 375/344; 375/348

375/344, 348, 350; 455/67.1, 232.1

See application file for complete search history.

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US 7,466,776 B2 Dec. 16, 2008

(45) Date of Patent:

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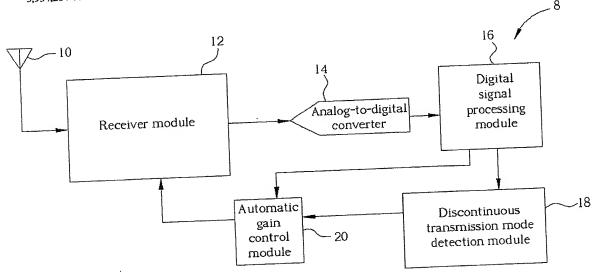
Primary Examiner—Shuwang Liu Assistant Examiner-Hirdepal Singh (74) Attorney, Agent, or Firm-Winston Hsu

(57)

An automatic gain control method used in a wireless receiver is disclosed. The method comprise the following steps: Receiving a first frame, amplifying a RF signal corresponding to the first frame with a gain value and down converting the RF signal to generate a baseband signal. Updating the gain value according to the power level of the baseband signal corresponding to the first frame, then using the updated gain value to amplify the RF signal corresponding to a second frame when receiving the second frame. Determining whether a first signal block is in the discontinuous transmission mode or not, wherein the first frame belongs to the first signal block. And resuming the gain value according to the power level of the baseband signal corresponding to a third frame if the first signal block is in the discontinuous transmission mode.

ABSTRACT

### 24 Claims, 4 Drawing Sheets



attachment 2

10/708,941

**AUTOMATIC GAIN CONTROL METHOD AND APPARATUS IN** COMMUNICATION SYSTEM HAVING DISCONTINUOUS TRANSMISSION MODE

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#### **Patent Assignment Abstract of Title**

Total Assignments: 1

Application #: 10708941

Filing Dt: 04/02/2004

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Issue Dt: 12/16/2008

PCT #: NONE

Inventors: Ti-Wen Yuan, Wei-Sheng Yin

Publication #: US20040196931

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Title: AUTOMATIC GAIN CONTROL METHOD AND APPARATUS IN COMMUNICATION SYSTEM HAVING DISCONTINUOUS TRANSMISSION MODE

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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: YUAN, TI-WEN

Exec Dt: 10/23/2003 Exec Dt: 10/23/2003

YIN, WEI-SHENG

Assignee: MEDIATEK INCORPORATION

5F, NO. 1-2, INNOVATION ROAD 1, SCIENCE-BASED

INDUSTRIAL PARK

HSIN-CHU HSIEN, TAIWAN

Correspondent: NAIPO (NORTH AMERICA INTERNATIONAL PATEN

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attachment 3

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